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### **AMENDMENTS TO THE CLAIMS**

Claims 1-84 were filed originally.

Claims 23-32, 54, and 65-68 are canceled.

Claim 51 is amended.

Accordingly, claims 1-22, 33-53, 55-64, and 69-84 remain pending.

1. (**Original**) A method comprising:

receiving non-native words of a non-native language and at least one native word of a native language that are entered by a user; and converting the native word to a corresponding non-native word.

- 2. (**Original**) A method as recited in claim 1, wherein the non-native language is English and the native language is Chinese.
- 3. (**Original**) A method as recited in claim 1, wherein the non-native words are English words and the native word is Chinese Pinyin.
- 4. (Original) A method as recited in claim 1, wherein the native word is written in phonetic text.
- 5. (Original) A method as recited in claim Error! Reference source not found.1, further comprising displaying the non-native words and the native word within a common entry line.

6.	(Original)	A	metho	d as recite	ed in claim 1	, wher	ein the	COI	nverting
comprises	determining	a	most	probable	non-native	word	given	a	contex
established	by the non-na	ativ	e word	ls previous	sly entered by	v the us	er.		

7. (Original) A method as recited in claim 1, wherein the native word is entered in phonetic form, the converting further comprising:

translating the native word from the phonetic form to a language form; and translating the native word in the language form to the non-native word.

8. (**Original**) A method as recited in claim 1, wherein the native word is entered in phonetic form, the converting further comprising:

determining a most probable language form of the native word and translating the native word from the phonetic form to the most probable language form; and

determining a most probable non-native word given the most probable language form of the native word.

- 9. (Original) A method as recited in claim 1, wherein the native word is entered in phonetic form and the converting comprises translating the native word from the phonetic form to one or more native words in a language form, the method further comprising displaying the one or more native words in the language form.
  - 10. (**Original**) A method as recited in claim 9, further comprising:

displaying the non-native words and the phonetic form of the native word within a common entry line; and

displaying the one or more native words in the language form within a popup box adjacent the entry line.

- 11. (**Original**) A method as recited in claim 10, further comprising ordering the native words within the pop-up box according to probabilities.
- 12. (**Original**) A method as recited in claim 10, further comprising enabling a user to scroll within the pop-up box.
- 13. (**Original**) A method as recited in claim 1, wherein the native word is entered in phonetic form and the converting comprises:

translating the native word from the phonetic form to one or more native words in a language form;

displaying the one or more native words in the language form;

translating at least one of the native words in the language form to one or more non-native words; and

displaying the one or more non-native words.

14. (Original) A method as recited in claim 13, further comprising:

displaying the non-native words and the phonetic form of the native word within a common entry line; and

displaying the one or more native words in the language form within a popup box adjacent the entry line.

15. (**Original**) A method as recited in claim 13, further comprising:

following translation to the one or more non-native words, displaying the non-native words and the language form of the native word within a common entry line; and

displaying the one or more non-native words within a pop-up box adjacent the entry line.

- 16. (**Original**) A method as recited in claim 1, further comprising displaying a bilingual sentence pair having a native sentence written in the native language and including the native word and a corresponding non-native sentence written in the non-native language and including the non-native word.
- 17. (**Original**) One or more computer-readable media having computer-executable instructions that, when executed on a processor, direct a computer to perform the method as recited in claim 1.

# 18. (**Original**) A method comprising:

displaying, via a user interface, character strings in a first language together with at least one character string of a second language as the user enters the character strings;

converting the character string of the second language to another character string of the first language; and

replacing the character string of the second language with said other character string of the first language in the user interface.

- 19. (**Original**) A method as recited in claim 18, wherein the first language is English and the second language is Chinese.
- 20. (**Original**) A method as recited in claim 18, further comprising displaying the character strings of the first and second languages within a common entry line.
- 21. (Original) A method as recited in claim 18, wherein the converting comprises determining a most probable character string given a context established by the character strings previously entered by the user.
- 22. (**Original**) One or more computer-readable media having computer-executable instructions that, when executed on a processor, direct a computer to perform the method as recited in claim 18.
  - 23. (Canceled)
  - 24. (Canceled)
  - 25. (Canceled)
  - 26. (Canceled)
  - 27. (Canceled)

1	28.	(Canceled)
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5	30.	(Canceled)
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8	31.	(Canceled)
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10	32.	(Canceled)
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12	33.	(Original) A method comprising:
13	recei	ving non-native words of a non-native language and at least one native
14	word of a n	ative language, the native word being received in a first form of the
15	native langu	age;
16	trans	ating the native word from its first form to at least one native word of
17	a second for	m;
18	trans	ating the native word of the second form to at least one non-native
19	word.	
20		
21	34.	(Original) A method as recited in claim 33, wherein the non-native
22	language is	English and the native language is Chinese.
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35. (**Original**) A method as recited in claim 33, wherein the non-native words are English words and the first form of the native word is Chinese Pinyin and the second form of the native word is Chinese Mandarin.

- 36. (**Original**) A method as recited in claim 33, wherein the translating the native word from its first form comprises selecting a most likely native word of the second form based on statistical probabilities.
- 37. (**Original**) A method as recited in claim 33, further comprising accepting misspelled versions of the native word in the first form.
- 38. (**Original**) A method as recited in claim 33, further comprising displaying the non-native words and the native word within a common entry line.
- 39. (**Original**) A method as recited in claim 33, wherein the translating the native word from its second form to the non-native word comprises:

determining possible non-native word candidates from the second form of the native word;

generating first probabilities associated with the non-native word candidates that indicate how likely individual non-native word candidates were intended by the user given the context established by previously entered non-native words:

generating second probabilities associated with the non-native word candidates that indicate how likely the second form of the native word was intended given individual non-native word candidates; and

deriving a most probable non-native word from among the non-native word candidates based on the first and second probabilities.

- 40. (Original) A method as recited in claim 33, further comprising replacing the native word in its first form with the non-native word.
- 41. (Original) One or more computer-readable media having computerexecutable instructions that, when executed on a processor, direct a computer to perform the method as recited in claim 33.

#### 42. (Original) A method comprising:

enabling a user to enter non-native words of a non-native language and a phonetic text string of a native language;

displaying the non-native words and the phonetic text string within a common entry line;

translating the phonetic text string to at least one native word of the native language;

determining possible non-native word candidates from the native word of the native language;

generating first probabilities associated with the non-native word candidates that indicate how likely individual non-native word candidates were intended by the user given the context established by previously entered nonnative words;

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generating second probabilities associated with the non-native word candidates that indicate how likely the native word was intended given individual non-native word candidates;

deriving a most probable non-native word from among the non-native word candidates based on the first and second probabilities; and

translating the native word to the most probable non-native word.

- 43. (**Original**) A method as recited in claim 42, wherein the non-native language is English and the native language is Chinese.
- 44. (**Original**) A method as recited in claim 42, wherein the non-native words are English words, the phonetic text is Chinese Pinyin, and the native word is Chinese Hanzi.
- 45. (**Original**) A method as recited in claim 42, wherein the translating the phonetic string comprises selecting most likely native words based on statistical probabilities.
- 46. (**Original**) A method as recited in claim 42, wherein the determining comprises using a bilingual dictionary to identify the non-native word candidates.
- 47. (**Original**) A method as recited in claim 42, wherein the generating first probabilities comprises using a statistical language model.

48.	(Original) A	method a	s recited	in claim	42,	wherein	the	generati	ng
second prol	pabilities compri	ises using	a transla	tion mode	el.				

- 49. (**Original**) A method as recited in claim 42, further comprising displaying the most probable non-native word in place of the phonetic text string.
- 50. (**Original**) One or more computer-readable media having computer-executable instructions that, when executed on a processor, direct a computer to perform the method as recited in claim 42.
- 51. (Currently Amended) A cross-language input user interface comprising:

a line-based entry area;

non-native text displayed within the line-based entry area; and

native text displayed together with the non-native text within the line-based entry area; and

converted non-native text, converted from the native text, substituted for the native text within the line-based entry area.

- 52. (Original) A cross-language input user interface as recited in claim 51, wherein the non-native text comprises English and the native text comprises Chinese.
- 53. (**Original**) A cross-language input user interface as recited in claim 51, wherein the line-based entry area is oriented horizontally.

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54. (Canceled)

55. (Original) A cross-language input user interface as recited in claim 51, further comprising a candidate list of non-native words that are possible translations of the native text.

56. (Original) A cross-language input user interface as recited in claim 51, further comprising a candidate list of non-native words that are possible translations of the native text, the non-native words being ordered within the candidate list according to a ranking.

- 57. (**Original**) A cross-language input user interface as recited in claim 51, wherein the line-based entry area is oriented in a first direction and further comprising a candidate list of non-native words that are possible translations of the native text, the candidate list being oriented in a second direction orthogonal to the first direction.
- 58. (Original) A cross-language input user interface as recited in claim 51, further comprising a sentence window, invokable by a user, to present bilingual sentences that include the native text and the non-native text.
- 59. (**Original**) A word processor comprising the language input user interface as recited in claim 51.

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an entry area that accepts first words written in a first language and at least one second word written in a second language; and

a candidate list of first words that are possible translations from the second word.

- 61. (**Original**) A cross-language input user interface as recited in claim 60, wherein the first language is English and the second language is Chinese.
- 62. (**Original**) A cross-language input user interface as recited in claim 60, wherein the entry area comprises a line-based entry area oriented in a first direction and the candidate list is presented adjacent the line-based entry area and oriented in a second direction orthogonal to the first direction.
- 63. (**Original**) A cross-language input user interface as recited in claim 60, further comprising a sentence window, invokable by a user, to present bilingual sentences written in the first and second languages.
- 64. (**Original**) A word processor comprising the language input user interface as recited in claim 60.
  - 65. (Canceled)
  - 66. (Canceled)

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### 68. (Canceled)

69. (Original) A cross-language writing architecture comprising:

a user interface to enable a user, who is accustomed to a native language, to enter non-native words from a non-native language; and

a spelling tool to assist the user with correct entry of the non-native words.

- 70. (Original) A cross-language writing architecture as recited in claim 69, wherein the user interface allows the user to enter a native word from the native language instead of the non-native word, the spelling tool comprising a translator to translate the native word to a corresponding non-native word.
- 71. (**Original**) A cross-language writing architecture as recited in claim 70, wherein the translator utilizes a bilingual dictionary.
- 72. (**Original**) A cross-language writing architecture as recited in claim 70, wherein the translator utilizes a statistical language model.
- 73. (**Original**) A cross-language writing architecture as recited in claim 70, wherein the translator utilizes a bilingual translation model.
- 74. (**Original**) A cross-language writing architecture as recited in claim 69, wherein the spelling tool utilizes a thesaurus.

75.	(Original)	A	word	processor	comprising	the	language	input
architecture	as recited in	clair	m 69.					•

## 76. (Original) A cross-language writing architecture comprising:

a user interface to enable a user, who is accustomed to a native language, to enter non-native words from a non-native language; and

a sentence recommendation tool to suggest possible sentence structures in the non-native language.

- 77. (**Original**) A cross-language writing architecture as recited in claim 76, wherein the sentence recommendation tool comprises:
- a bilingual corpus containing bilingual sentence pairs, written in both the native language and the non-native language; and
- a sentence retrieval unit to retrieve bilingual sentence pairs from the bilingual corpus.
- 78. (**Original**) A cross-language writing architecture as recited in claim 77, wherein the sentence recommendation tool ranks the sentences retrieved from the bilingual corpus.
- 79. (**Original**) A word processor comprising the language input architecture as recited in claim 76.
  - 80. (Original) A cross-language writing architecture comprising:

a user interface to enable entry of English words together with Chinese Pinyin;

a spelling tool to translate the Chinese Pinyin to one or more Chinese words, the spelling tool being further configured to translate the Chinese words to one or more English words that may be substituted for the Chinese Pinyin; and

a sentence recommendation tool, invokable by a user, to offer pairs of corresponding sentences written in English and Chinese to demonstrate how an English word is used in a sentence.

- 81. (**Original**) A cross-language writing architecture as recited in claim 80, wherein the spelling tool comprises:
- a Chinese-English dictionary to determine possible English word candidates from the Chinese words;

an English language model to determine how likely the user intended the English word candidates given previously entered English words; and

an English-Chinese translation model to determine how likely individual Chinese words were intended given the English word candidates.

- 82. (**Original**) A cross-language writing architecture as recited in claim 80, wherein the sentence recommendation tool comprises:
- a bilingual corpus containing bilingual sentence pairs written in both English and Chinese; and
- a sentence retrieval unit to retrieve bilingual sentence pairs from the bilingual corpus.

83.	(Original)	A	word	processor	comprising	the	language	inpu
architecture a	as recited in	clai	m 80.					

84. (**Original**) One or more computer-readable media having computer-executable instructions that, when executed on a processor, direct a computer to:

enable entry of English words and Chinese Pinyin;

translate the Chinese Pinyin to at least one Chinese word;

determine possible English word candidates from the Chinese word;

generate first probabilities associated with the English word candidates that indicate how likely each of the English word candidates was intended given previously entered English words;

generate second probabilities associated with the English word candidates that indicate how likely the Chinese word was intended given each of the English word candidates;

derive a most probable English word from among the English word candidates based on the first and second probabilities; and

translate the Chinese word to the most probable English word.